

MODEL TO-512

Universal Penetrometer



Penetrometers are used for testing a wide variety of materials such as grease, petroleum, bitumen, tar, asphalt, rubber, cement and soils.

In this test, a chosen force is applied over a given area for a known period of time and the depth of penetration or the depression made in the sample is measured in tenths of a millimetre, which is expressed as a penetration number.

An accurately fabricated steel base has been designed to facilitate penetration tests to be made over a wide surface area of sample. Adjustable feet are provided in the base for levelling. The display and penetration arm are adjustable to permit the testing of samples immersed in a thermostat bath.

The unit is compact with in-built timer to control the duration of penetration, which is preset in the factory to five seconds. The instrument is provided with levelling screws. Each penetrometer is supplied with a plunger weighing 47.5g for testing bituminous product, one 50g weight and one 100g weight. It also includes the cone and penetration unit.

APPLICABLE STANDARDS

- EN 12350-2, ASTM C143

STANDARD FEATURES

- **TO-515** Penetrometer cone
- **TO-516** Bitumen penetration kit

OPTIONAL ACCESSORIES

- **TO-515** Penetrometer cone
- **TO-518** Bitumen penetration kit
- **TO-51801** Penetration needle

- **TO-51802** Transfer dish (copper)
- **TO-51803** Aluminium sample containers
- **TO-04201** Penetration test cone
- **TO-04202** Penetration test cup

ORDERING INFORMATION

- **TO-512-01** Universal Penetrometer with timer, 110V, 60Hz
- **TO-512-02** Universal Penetrometer with timer, 220V, 60Hz
- **TO-512-03** Universal Penetrometer with timer, 220V, 50Hz